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☐ 1. Document ID: US 6565959 B1

AB: A high strength, high modulus fiber is applied to uncured adhesive in the glue line of a laminar wood beam as an anti-sag agent and for improved shear strength, creep resistance, and gapability. In one embodiment, discontinuous fibers are evenly applied over the adhesive at approximately 0.25 to 1.35 wt % fiber. The applied fibers are chopped fibers of aramid, carbon, glass, or other high strength, high modulus fiber and are applied in lengths of approximately 0.025 to 2.54 centimeters. In another embodiment, discontinuous fibers are used as an additive to a resin matrix for reconstituted fiber products to control dimensional change. In a third embodiment, continuous fibers are used in the glue line in a pretensioned or an untensioned way to improve shear resistance, creep resistance, and strength.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Summary	Claims	KWIC	Draw. Des
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☐ 2. Document ID: US 6562938 B2

AB: This invention relates to binary blends of cellulose esters and aliphatic-aromatic copolyesters, cellulose esters and aliphatic polyesters as well as ternary blends of cellulose esters and/or aliphatic polyesters and/or aliphatic-aromatic copolyesters and/or polymeric compounds as well as fibers, nonwovens, molded objects, and films prepared therefrom.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Summary	Claims	KWIC	Draw. Des
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☐ 3. Document ID: US 5830548 A

AB: Compositions and methods for manufacturing composite laminar structures incorporating sheets having a moldable matrix are disclosed. Suitable compositions are prepared by mixing together a water dispersable organic binder, water, and appropriate additives (such as aggregates and fibers) which impart predetermined properties so that a sheet formed therefrom has the desired performance criteria. The compositions are formed into sheets by first extruding them into a sheet and then calendaring the sheet using a set of rollers. The calendared sheets are dried in an accelerated manner to form a substantially hardened sheet. The drying process is performed by heated rollers and/or a drying chamber. The inorganically filled sheets so formed may have properties substantially

similar to sheets made from presently used materials like paper, cardboard, polystyrene, or plastic. Such sheets can be rolled, pressed, scored, perforated, folded, and glued before or after being incorporated into composite laminate structures. Such composite laminate structures have especial utility in the mass production of containers, particularly food and beverage containers.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Abstract	Claims	KMC	Draw Des
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☐ 4. Document ID: US 4359548 A

AB: Polyester resins are produced by chemically reacting a broken-down alkali metal lignin-cellulose polymer, a substituted organic hydroxy compound and a polycarboxylic acid compound and/or a polycarboxylic acid anhydride. Polyester resins may be used as molding powder, as coating agents and to produce polyurethane foams.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Abstract	Claims	KMC	Draw Des
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